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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,155	08/04/2003	Hiroshi Ogawa	10746/36	6333
	26646 7590 12/26/2006 KENYON & KENYON LLP		EXAMINER	
ONE BROADWAY			GELAGAY, SHEWAYE	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2137	
		MAN DATE	DELIVED	VMODE
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/26/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-	Application No.	Applicant(s)				
Office A stieve Comment	10/634,155	OGAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shewaye Gelagay	2137				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	•					
1) Responsive to communication(s) filed on 20 No	ovember 2006.					
	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,7-10,13-16 and 19-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,7-10,13-16 and 19-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/19/05,7/28/04,8/24/03. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I (claims 1-4, 7-10, 13-16 and 19-24) in the reply filed on November 20,2006 is acknowledged. Claims 5-6, 11-12 and 17-18 have been withdrawn. Claims 25-72 have been canceled. Claims 1-4, 7-10, 13-16 and 19-24 have been examined.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 7-9, 13-15 and 19-23 rejected under 35 U.S.C. 102(e) as being anticipated by Hayashi et al. (hereinafter Hayashi) US Patent Number 6,694,040. As per claims 1, 7, 13 and 19:

Hayashi teaches a method for embedding digital watermark data in digital data contents, said method comprising the steps of:

receiving said digital data contents and said digital watermark data; (col. 2, lines 33-34; col. 4, lines 30-32)

dividing said digital data contents into block data; (col. 4, lines 61-64)

obtaining a frequency coefficient of said block data; (col. 4, line 65-col. 5, line 25)

obtaining a complexity of said block data; (col. 4, line 65-col. 5, line 25)

obtaining an amount of transformation of said frequency coefficient from said

complexity and said digital watermark data by using a quantization width; (col. 6, lines 3-49)

embedding said digital watermark data in said digital data contents by transforming said frequency coefficient by said amount; (col. 2, lines 51-55; col. 6, lines 3-49) and

generating watermarked digital data contents. (col. 2, lines 51-55; col. 6, lines 3-49)

As per claims 2, 8, 14 and 20:

Hayashi teaches all the subject matter as discussed above. In addition, Hayashi further discloses a method said step of obtaining said complexity of said block data comprising the steps of:

transforming said block data, by applying a wavelet transform, into coefficients of said wavelet transform, (col. 5, line 21-col. 6, line 27) and

obtaining said complexity on the basis of the number of high frequency coefficients in said coefficients of said wavelet transform, each of said high frequency coefficients exceeding a threshold. (col. 5, line 21-col. 6, line 27)

As per claims 3, 9, 15, 21 and 23:

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Hayashi teaches a method for embedding digital watermark data in digital data contents, said method comprising the steps of:

receiving said digital data contents and said digital watermark data; (col. 2, lines 33-34; col. 4, lines 30-32)

dividing said digital data contents into block data; (col. 4, lines 61-64) obtaining a frequency coefficient of said block data; (col. 4, line 65-col. 5, line 25) obtaining a complexity of said block data; (col. 4, line 65-col. 5, line 25)

obtaining an amount of transformation of said frequency coefficient from said digital watermark data by using a quantization width corresponding to said frequency coefficient, said quantization width being obtained beforehand according to a manipulation method of said digital data contents; (col. 5, lines 47-58; col. 6, lines 3-49)

embedding said digital watermark data in said digital data contents by transforming said frequency coefficient by said amount; (col. 2, lines 51-55; col. 6, lines 3-49) and

generating watermarked digital data contents. (col. 2, lines 51-55; col. 6, lines 3-49)

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 4, 10, 16, 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi et al. (hereinafter Hayashi) US Patent Number 6,694,040 in view of Ho et al. (hereinafter Ho) US Patent Number 6,983,057.

As per claims 4, 10, 16, 22 and 24:

Hayashi teaches all the subject matter as discussed above. In addition Hayashi further discloses a method wherein said quantization width is obtained by a method comprising the steps of:

dividing first digital data contents into one or a plurality of first block data; (col. 4, lines 61-64)

dividing second digital data contents into one or a plurality of second block data, said second digital data contents being obtained by manipulating said first digital data contents with a predetermined manipulation method; (col. 4, line 65-col. 5, line 25)

transforming said first block data and said second block data into first frequency coefficients and second frequency coefficients respectively by applying an orthogonal transform; (col. 19, line 62-col. 20, line 31)

Hayashi does not explicitly disclose obtaining difference values between said first frequency coefficients and said second frequency coefficients for each frequency coefficient; calculating a standard deviation of distribution of said difference values; and obtaining said quantization width by multiplying said standard deviation by a watermark embedding strength. Ho in analogous art, however, discloses obtaining difference values between said first frequency coefficients and said second frequency coefficients for each frequency coefficient; calculating a standard deviation of distribution of said

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deviation by a watermark embedding strength. (col. 7, line 45-col. 8, line 49) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the method disclosed by Hayashi with Ho in order to perform different statistical analysis of frequency coefficients to determine optimum off-set positions. (col. 8, lines 2-3; Ho)

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See Form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shewaye Gelagay whose telephone number is 571-272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shewaye Gelagay

EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER